The Beosystem 4500 consists of the Beomaster 4500 tuner/amplifier, the Beogram CD 4500 compact disc player, the Beocord 4500 tape recorder, and the Beogram 4500 record player.

All the units can be operated close up, as separates, yet they communicate with each other and form an integrated system.

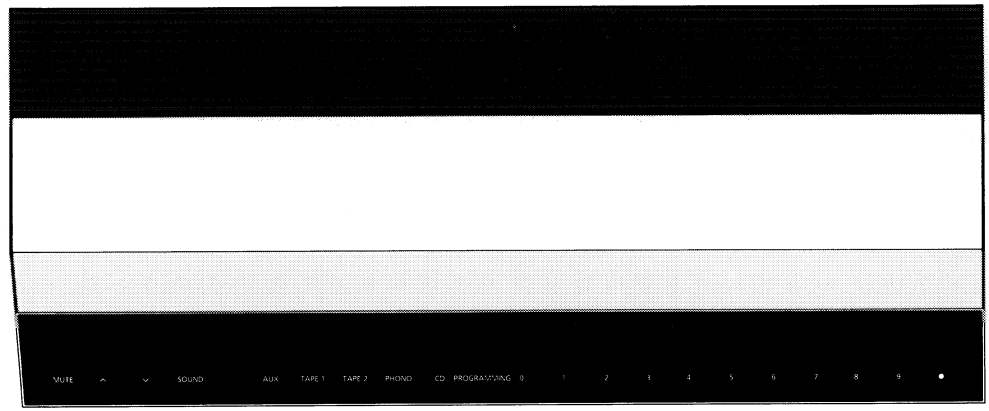
The Beosystem can also be operated from a distance using the Beolink 5000 terminal or, alternatively, the Beolink 1000 terminal (optional extras). The Beolink 5000 terminal is furthermore the key to the timer programming feature in the system.

User's guide

Note: Complete setting-up instructions for each individual unit in your Beosystem 4500 are in the setting-up guide enclosed with each unit.

4 Principles of operation
6 Daily operations:
Switching on to a source
Adjusting volume
Muting
Switching off
8 Sound adjustments
10 Tuning and presetting radio stations
12 Using the CD player
14 Using the tape recorder
18 Using the record player
20 Remote control
23 Maintenance

Beomaster 4500



The controls identified by grey print on the operation panel give you access to the primary functions.

To switch on to a source, you just have to touch the appropriate text field, for example CD if you want to hear a compact disc. To switch on the radio, touch the appropriate preset number directly.

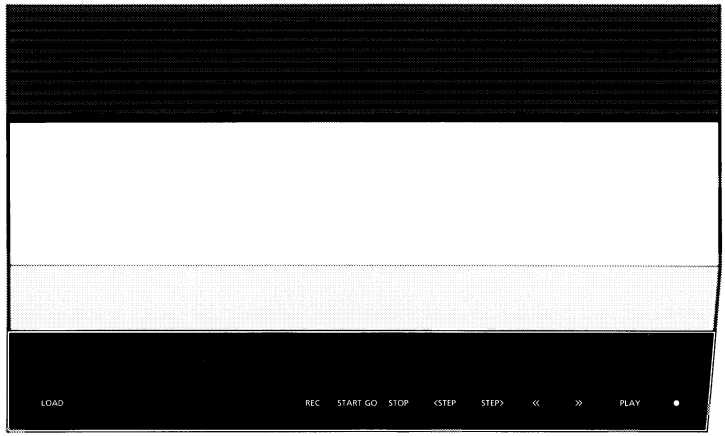
You will find that other controls appear in green colour when you have pressed some of the primary controls. They will light up for a limited period of time, so if they disappear before you have finished your instructions, you simply start again.

When you operate the Beomaster, cues in red colour appear above the primary controls. They indicate music source, sound adjustments and whether you are on the FM or AM band.

Beogram CD 4500

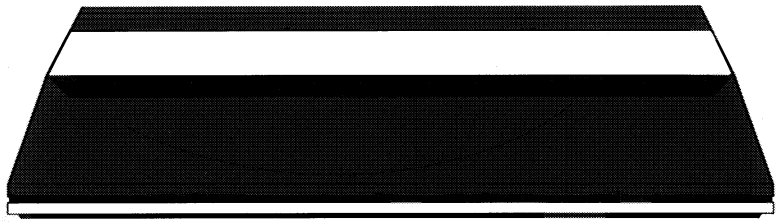
The CD compartment is under the hinged lid.
Press LOAD to open it.

Beocord 4500



The tape compartment is under the hinged lid.
Press LOAD to open it.

Beogram 4500



The system can be hung on the wall or placed on a table or shelf. Wall brackets are available as optional accessories. See the Beomaster 4500 setting-up guide for details.

Switching on to a source

Switch on by selecting any of the music sources available in your Beosystem 4500.

Whenever you switch on, the source selected will start playing at the preset sound level stored in the Beomaster.

The source selected will be indicated on the operation panel of the Beomaster 4500.

MUTE — Turns on the source in your system you were last listening to

AUX — Selects the AUX/TV socket as source

TAPE 1 — Turns on the tape recorder

If you press PLAY on the Beocord 4500 to start playback, the Beomaster switches on automatically

TAPE 2 — Turns on any second Bang & Olufsen tape recorder equipped with Datalink

PHONO — Turns on the record player

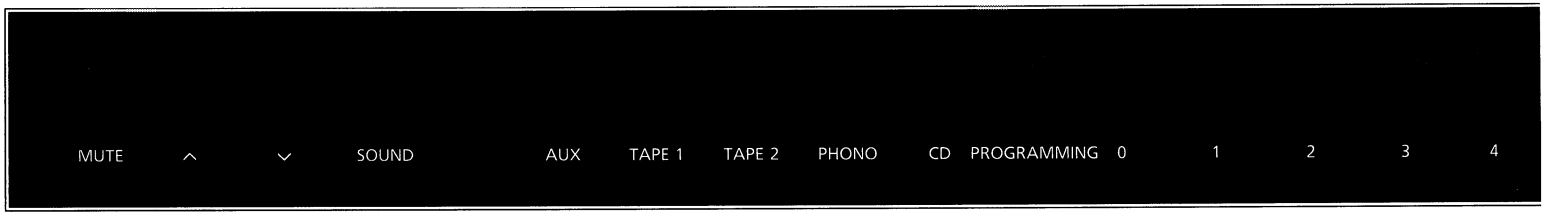
If you press PLAY on the Beogram 4500 to start playing a record, the Beomaster switches on automatically

CD — Turns on the compact disc player

If you press PLAY on the Beogram CD 4500 to start playing a compact disc, the Beomaster switches on automatically

0 - 9 — Turns on the radio station preset on the appropriate number

0 alone switches on to the radio station you were last listening to



Adjusting volume

Press ∧ to raise the volume level.
Press ∨ to lower the volume level.

When you adjust the volume, the current volume level will be indicated by a figure in the digital display: 00 as the lowest and 90 as the highest.

Muting

Press MUTE to make the sound disappear immediately.

This is useful if you want temporary silence without switching off.

Press MUTE again to recall the sound.

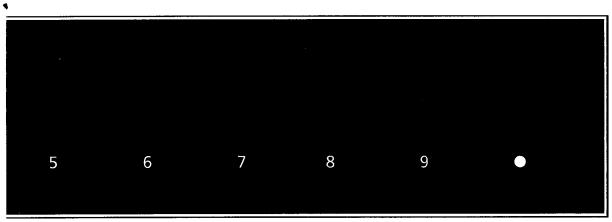
Note: The mute function does not apply to any speakers connected to the speaker sockets marked R2/L2.

Switching off

Switch off by pressing ● on the right-hand side of the operating panel.

The Beomaster will revert to stand-by mode. The other units in the system, if any, will also revert to stand-by mode.

Within 30 minutes of finishing a record, a tape or a compact disc, the system automatically reverts to stand-by mode.



Adjusting and setting sound

Volume

Press ∧ to raise the volume level.
Press ∨ to lower the volume level.

When you adjust the volume, the current volume level will be indicated by a figure in the display: 00 as the lowest and 90 as the highest.

Whenever you switch on, the Beomaster 4500 will start playing at a preset volume level. You can set this start-up level to suit your personal taste.

SOUND x 1	Press SOUND once
∧ or ∨	Adjust the volume to the desired level using ∧ or ∨
STORE	Press STORE to memorize the new level

Note: The Beomaster will not start playing at a volume level exceeding 70. If you have preset a start-up level higher than that, it will disregard your instructions and start playing at 70 instead.

Balance

Balance is an indication of the distribution of sound emerging from the two loudspeakers. You may wish to alter the balance to suit your favourite listening position.

The balance setting ranges from 0 to 7 for either speaker. The middle setting is indicated by ---- in the display.

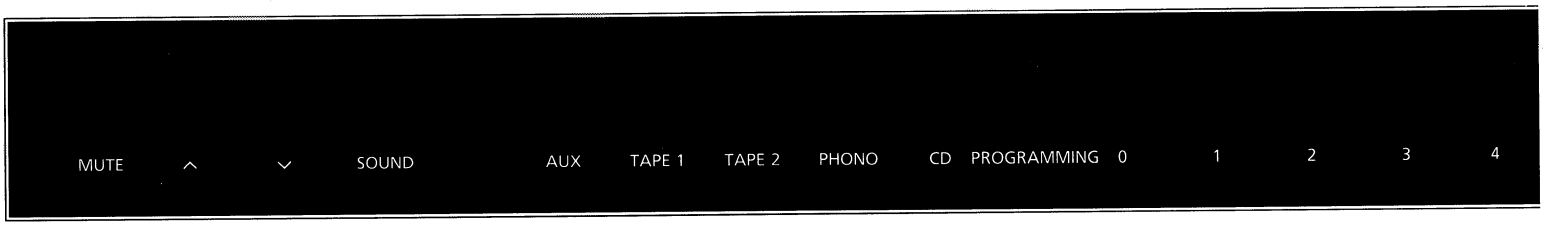
SOUND x 2	Press SOUND twice
∧ or ∨	Adjust the balance using ∧ or ∨ while the BAL cue is visible
	Pressing ∧ shifts the sound to the right loudspeaker, and pressing ∨ shifts the sound to the left loudspeaker
STORE	Press STORE if you want to memorize the new balance

Bass

The bass level can be adjusted to suit your personal taste.

The bass setting ranges from +6 to -6. The medium setting is indicated by -- in the display.

SOUND x 3	Press SOUND three times
∧ or ∨	Adjust the bass to the desired level using ∧ or ∨ while the BASS cue is visible
STORE	Press STORE if you want to memorize the new level



Treble

The treble level can be adjusted to suit your personal taste.

The treble setting ranges from +6 to -6. The medium setting is indicated by -- in the display.

SOUND x 4	Press SOUND four times
^ or v	Adjust the treble to the desired level using ^ or v while the TREBLE cue is visible
STORE	Press STORE if you want to memorize the new level

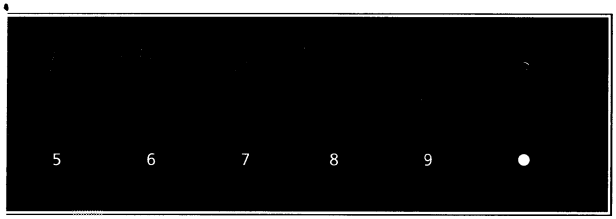
Loudness

The loudness function is used to compensate for the human ear's lack of sensitivity to high and low frequencies when you are listening at low volume levels. It "boosts" the high and low frequencies so that the music becomes more dynamic.

You can cut the loudness function in or out as you please.

SOUND x 5	Press SOUND five times to get access to the loudness function
	The LOUDN cue flashes if the function is cut out, and it glows constantly if it is cut in
^ or v	Press ^ to cut in the loudness function, or press v to cut it out
STORE	Press STORE if you want to memorize the new setting

Note: Adjusting and presetting volume, balance, bass, treble and loudness may be done in one step by pressing SOUND only once between each adjustment, and by pressing STORE only after the last adjustment.



Tuning and presetting radio stations

The radio must be tuned to pick up the stations available in your area. You can preset a total of 20 stations.

The tuning of radio stations can be carried out in three different ways:

- Automatic tuning
- Tuning by keying in the frequency
- Manual tuning

FM and AM frequency ranges
The frequencies in the FM band range from 87.5 MHz to 108.0 MHz. The frequencies in the AM band range from 150 kHz to 1610 kHz.

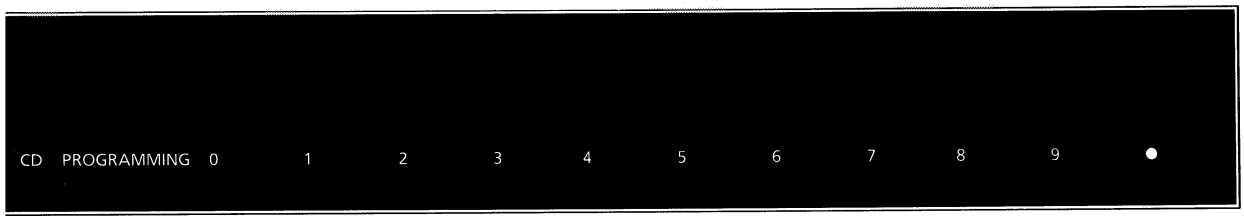
The AM/FM control is used to switch between the FM and AM bands. Each time you switch from the FM band to the AM band or vice versa, the tuner will move to the start of the band.

The display indicates AM frequencies in kHz with no decimals. FM frequencies are stated in MHz with one decimal.

Automatic tuning

The automatic tuning function is useful if you are not familiar with the radio stations and their frequencies.

0 - 9	Switch on by pressing any of the numbers 0-9
	The chosen number is displayed
PROGRAM-MING	Press PROGRAMMING
	The display indicates the current frequency, and the controls GO TO and STORE become accessible
GO TO	Press GO TO
	The display indicates ----, and the controls AM/FM, < and > become accessible
AM/FM	Press AM/FM if you want to switch from AM to FM or vice versa
	>
< or >	Press > to search upward or < to search downward through the frequencies
	The Beomaster will stop at the first station producing an acceptable signal. If this is not the station you want, press > or < again
STORE	Press STORE to preset the station found
	The first vacant preset number flashes
0 - 9	If you do not want to use this number, key in the number of your choice
STORE	Press STORE another time to preset the station



Tuning by keying in the frequency

If you know the exact frequency of the station you want, you can key it in directly.

0 - 9	Switch on by pressing any of the numbers 0-9
	The chosen number is displayed
PROGRAM-MING	Press PROGRAMMING
	The display indicates the current frequency, and the controls GO TO and STORE become accessible
GO TO	Press GO TO
	The display indicates ----, and the controls AM/FM, < and > become accessible
AM/FM	Press AM/FM if you want to switch from AM to FM or vice versa
1234.....	Key in the appropriate frequency using three or four digits, as required
STORE	Press STORE to preset the station found
	The first vacant preset number flashes
0 - 9	If you do not want to use this number, key in the number of your choice
STORE	Press STORE another time to preset the station

Manual tuning

The manual tuning function is useful if you want to search slowly through the frequencies, or if you want to detune a station slightly due to noisy reception.

0 - 9	Switch on by pressing any of the numbers 0-9
	The chosen number is displayed
PROGRAM-MING	Press PROGRAMMING
	The display indicates the current frequency, and the controls GO TO and STORE become accessible
GO TO	Press GO TO
	The display indicates ----, and the controls AM/FM, < and > become accessible
AM/FM	Press AM/FM if you want to switch from AM to FM or vice versa
GO TO	Press GO TO another time
	The display indicates the current frequency, and the controls AM/FM and STORE disappear
	>
< or >	Keep your finger on > to search slowly upward or on < to search slowly downward through the frequencies until you have found the station you want
	The longer you keep your finger on > or <, the higher the search speed
STORE	Press STORE to preset the station found
	The first vacant preset number flashes
0 - 9	If you do not want to use this number, key in the number of your choice
STORE	Press STORE another time to preset the station

Repeat any of these procedures to tune in and preset other stations.

Note: If you tune in a frequency (station) which you have already preset, this preset number will appear in the display rather than the first vacant preset number. This serves as a reminder that you have already preset the station.

If you switch on by selecting a preset number to which a station has not been assigned, the tuner will move to the start of the FM band (87.5 MHz).

Loading a compact disc

The disc compartment is under the hinged aluminium lid. To gain access to the disc compartment, press LOAD on the operation panel.

Place the compact disc in the compartment with the printed side pointing upwards.

The lid closes automatically when playing is started. When the CD player is switched to stand-by, the lid also closes automatically.

Playing a compact disc

PLAY	Starts playing
STOP	Stops playing

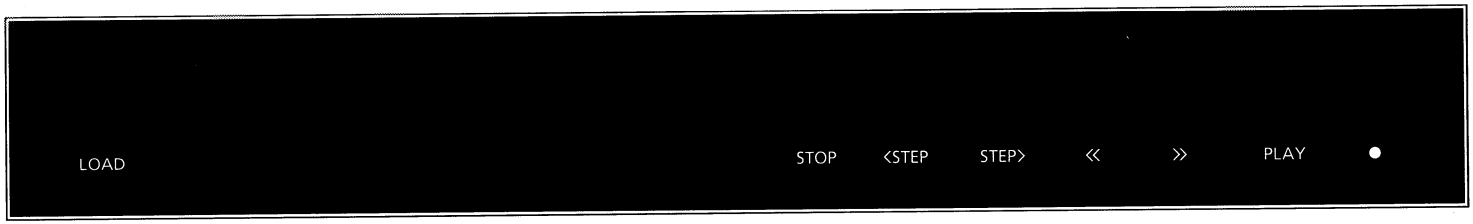
Press PLAY to start playing a compact disc.

The CD player registers all the tracks on the compact disc as indicated by the display on the operating panel. Track numbers above 14 are indicated by +.

As soon as all tracks are registered, playing starts at track 1.

Playing continues until the disc runs out, or until you press STOP to stop playing. The CD player pauses until you press PLAY again.

You can also stop playback by pressing ● to switch to stand-by.



Searching through a compact disc

You can search through a compact disc to find a specific point on the disc. Keep your finger on » to search forward, or on « to search backward through the tracks.

Lift your finger to stop searching. Playing starts immediately.

You can search at three speeds. If you keep your finger on » or «, the speed will accelerate.

» Searches forward

« Searches backward

Keep your finger on » or «

Stepping through tracks

Press STEP› once to step forward to the next track. Press STEP› the number of times required to step to the desired track further ahead.

Press ‹STEP once to step backward to the beginning of the track you are listening to. Press ‹STEP twice or more to step to preceding tracks.

If you want to play a track two or more steps ahead or behind, keep your finger on STEP› or ‹STEP.

The cue STEP› or ‹STEP flashes once for each step the CD player will make.

STEP› Steps to the next track

‹STEP Steps to the beginning of the current track

Press twice to step to the previous track

Loading a cassette

The cassette compartment is under the hinged aluminium lid. To gain access to the cassette compartment, press LOAD on the operating panel.

Place the cassette in the compartment with the tape slots facing you, and with side 1 (or A) pointing upwards.

Close the lid by pressing LOAD again. The lid may be left open during playback or recording. When the tape recorder is switched to stand-by, the lid closes automatically.

Playing back a tape

PLAY	Starts playback
STOP	Stops playback
START GO	Rewinds the tape and starts playback from the beginning

Press PLAY to start playback.

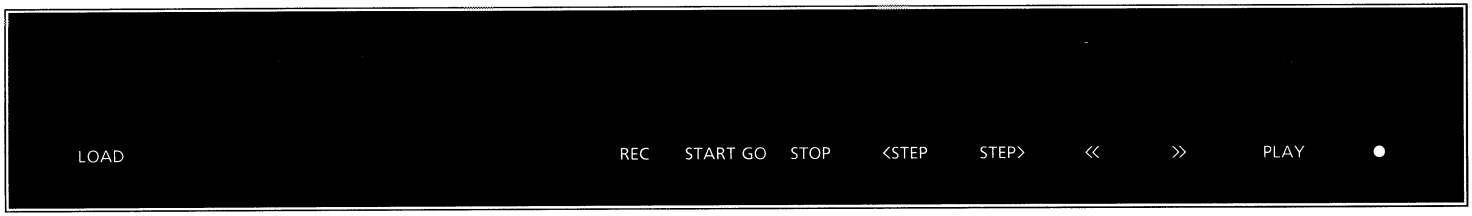
The tape recorder automatically adjusts to the type of tape used: metal, chrome or ferric.

If the tape was recorded with the Dolby B noise reduction system, set the DOLBY NR switch to ON.

If you have loaded a cassette which has not been rewound completely, you can start playback by pressing START GO. The tape will be rewound to the start of side 1, and playback will start immediately.

Playback continues until the tape runs out, or until you press STOP to stop playback. The tape will pause until you press PLAY again.

You can also stop playback by pressing ● to switch to stand-by.



Winding and rewinding

Press » to wind the tape.
Press « to rewind the tape.

Rewinding always means returning to the start of side 1, and winding always means moving to the end of side 2, unless you have cut out the automatic reverse function.

» Winds the tape forward

« Rewinds the tape

Stepping through tracks

Press STEP› once to step forward to the next track. Press STEP› the number of times required to step to the desired track further ahead.

Press ‹STEP to step backward to the beginning of the track you are listening to. Press ‹STEP twice or more to step to preceding tracks.

If you want to play a track two or more steps ahead or behind, keep your finger on STEP› or ‹STEP.

The cue STEP› or ‹STEP flashes once for each step the tape recorder will make.

Note: The tape recorder will only be able to recognize the tracks on a tape if there is a pause of at least 2.5 seconds between them.

STEP› Steps to the next track

‹STEP Steps to the beginning of the current track

Press twice to step to the previous track

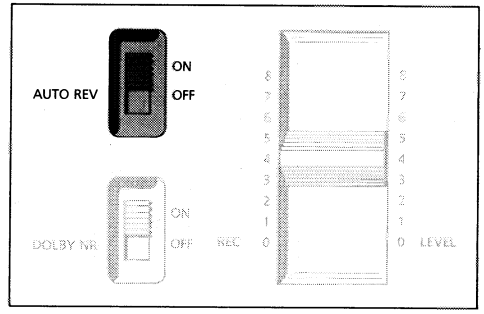
Automatic tape reverse

The Beocord 4500 features an automatic reverse function, which means that you do not have to turn the tape manually.

The tape recorder automatically reverses the tape at the end of side 1 and continues playback or recording on side 2.

The side of the cassette which is pointing upward when loaded in the cassette compartment is regarded as side 1.

You can cut in or out the automatic reverse function as you please. Set the AUTO REV switch to ON to cut in the function, or set it to OFF to cut it out.



Recording

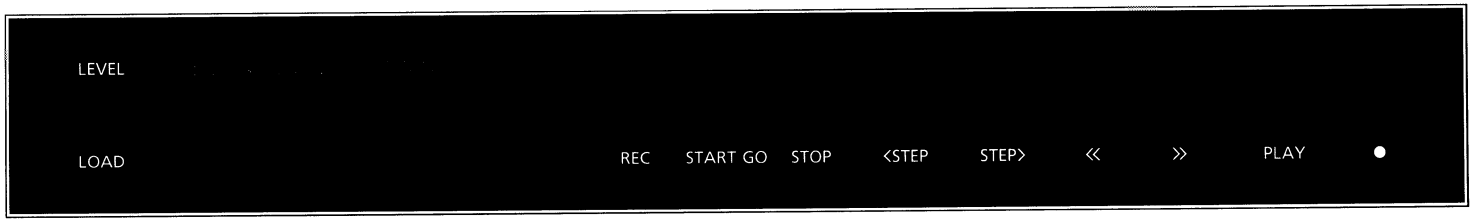
You can select the source for your recording, for example a radio program, both before and after you have switched to recording pause mode. Once recording has started, however, you cannot switch to another source.

REC	Press REC once to switch to recording pause mode
	The cues REC and STOP light up
	Start playing the source you want to record from, for example the Beogram CD 4500
REC LEVEL	Adjust the recording level using the REC LEVEL slider
REC	Press REC a second time to start recording
	The STOP cue disappears leaving just the REC cue lit
STOP	Press STOP once to stop recording
	The STOP cue lights up again, and the REC cue flashes briefly
	The tape recorder will insert a blank of 4 seconds on the tape before stopping
STOP	Press STOP again to leave the recording mode
	If you do not want the 4 second pause on your tape, press STOP twice in quick succession

Note: If you wish to change a recording which is already in progress, press <STEP. The tape will rewind to the spot where REC was last pressed, and you can now resume recording, or you can press STOP to leave the recording mode.

If you are recording from the Beogram CD 4500 or the Beogram 4500, recording stops automatically when the compact disc or record is finished. Likewise, if the tape runs out during recording, the Beogram CD 4500 or the Beogram 4500 stops automatically.

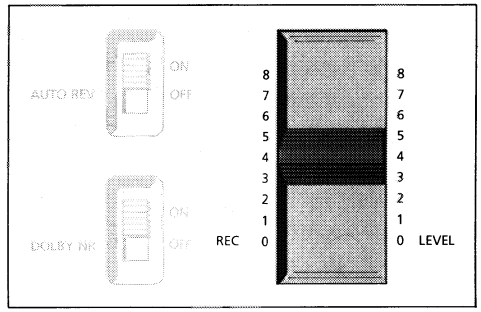
Note: The copyright laws of some countries prohibit the copying of prerecorded material.



Recording level

The REC LEVEL slider is used to adjust the signal level prior to recording.

We recommend you keep the level around the 0 dB point (marked by a tiny red arrow) with only occasional blinks in the red area on the VU-meter.



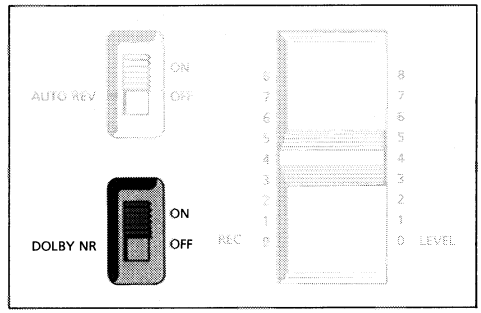
Using the Dolby NR* noise reduction system

The Dolby B NR system can be switched on and off during playback or recording. Set the Dolby NR switch to ON to cut in the function, or set it to OFF to cut it out.

The Dolby NR system reduces the background noise on your tapes. If a tape was recorded with the Dolby NR system cut in, the tape must also be played back with the Dolby NR system cut in.

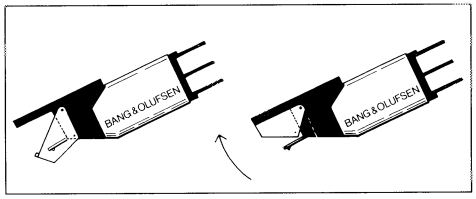
The Beocord 4500 is also equipped with the HX Pro recording system. This automatic circuit, which was developed by Bang & Olufsen in cooperation with the Dolby Laboratories, ensures optimum saturation of the tape, whichever type you are using.

The system works automatically during recording. The result can be heard, even if you play back your tapes on a tape recorder not equipped with the HX Pro system.



*Trademark of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Before you start playing the record...



Make sure that you have raised the stylus guard on the cartridge before you start!

The turntable automatically registers the size of standard records and sets the speed accordingly.

Note: For records of LP-size but requiring 45 rpm (maxi-singles), the speed must be selected manually. To do so, start playing the record, then press the button marked 45 on the turntable to change speed.

25-cm records must be started manually! First press ⟵ on the turntable, then gently guide the tonearm to the edge of the record and start playing.

Playing a record

⟵ Starts turntable rotation

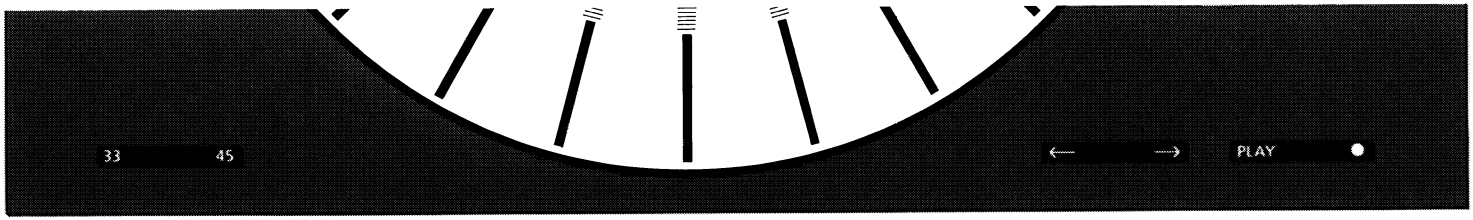
PLAY Starts playing

If you want to clean the record before playing, press ⟵ to start turntable rotation. The tonearm moves into position without lowering onto the record.

Press PLAY to start playing.

If there is no record on the turntable when you press PLAY, the turntable rotates briefly, and the tonearm remains in its resting position.

Playing continues until the record is finished, or until you press ● to switch the record player to stand-by.



Pausing

Press ← or → to lift the tonearm off the record. The tonearm rises and remains in this position while the turntable continues rotating.

Press PLAY when you want to resume playing.

If the record player is left in pause for more than 8 minutes, it will automatically switch to stand-by.

← or →	Lifts the tonearm off the record
PLAY	Resumes playing

Stepping through a record

You can move the tonearm to any position on a record and start playing from there.

Use ← to move the tonearm towards the centre of the record or use → to move the tonearm to the edge of the record. Keep your finger on ← or → until you reach the desired spot. Then release the button and press PLAY to start playing.

During this procedure a tiny beam of light illuminates the record to help you find the desired spot.

←	Moves the tonearm towards the centre of the record
→	Moves the tonearm towards the edge of the record
PLAY	Resumes playing

Repeating a record

You can make the record player play a record up to seven times in a row.

Press PLAY to start playing, then press PLAY again the number of times you want to have the record repeated.

The speed indicator flashes indicating that the record will be repeated.

Note: If you press →, ← or ●, the repeat command will be cancelled.

PLAY	Press repeatedly to play the record several times over

Using the Beolink 5000

Although designed primarily for close-up operation, the Beosystem 4500 can also be operated from a distance.

The Beolink 5000 terminal can operate all the primary functions in the Beosystem 4500, such as switching on to a source, selecting other radio programs or tracks on a CD, adjusting volume, and switching off - but it is also the key to new functions...

Note: The Beolink 5000 is optional and not a standard component in your Beosystem 4500.

See the Beolink 5000 user's guide for full details of how to use the Beolink 5000 terminal

Shown below are the primary, daily functions

Turns on the radio program you were last listening to — RADIO

Selects other radio programs — 0 *through* 9

Steps through programs — ▲ *or* ▼

Starts playing the tape in the audio tape recorder — A.TAPE

Selects other tracks — 0 *through* 9

Plays the next track — ▲

Plays the current track again – press twice to play the previous track — ▼

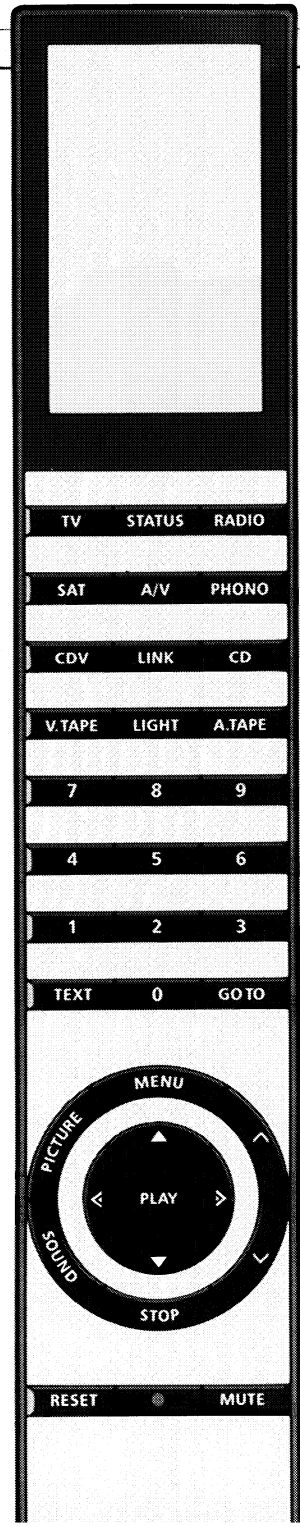
Fast forward — »

Rewinding — «

Starts playing the record on the turntable — PHONO

Steps forward through the music — ▲

Steps backward through the music — ▼



Note: Please refer to page 22 if you prefer to operate your Beosystem 4500 with the Beolink 1000 terminal.

Beolink 5000 is the key to new functions

The Beolink 5000 opens up a number of functions in the Beosystem 4500 which are otherwise not available.

Programming a track sequence

You can for example program both the CD player and the tape recorder to play specific tracks in any order you require.

Timer programming

You can also program the system to switch on or off automatically at a specific time, or making a timer recording of a radio program.

Note: After programming the system to switch on automatically at a specific time, you must set the timer sound control on.

To do so, you must switch the Beosystem to stand-by, then press PROGRAMMING on the Beomaster 4500. This will make the green control TIMER appear on the operating panel. Press TIMER to light up the red TIMER cue to the left of the stand-by light. Press TIMER again to set the timer sound control off (the red TIMER cue disappears).

If you forget to set the timer sound control on, the programmed play instruction will be executed at the specified time, but the speakers will be muted.

See the Beolink 5000 user's guide for full details of how to use the Beolink 5000 terminal

Shown below are the primary, daily operations

Starts playing the CD in the compact disc player — CD

Selects other tracks — 0 *through* 9

Plays the next track — ▲

Plays the current track again – press twice to play the previous track — ▼

Forward search — »

Backward search — «

Raises the volume level — ^

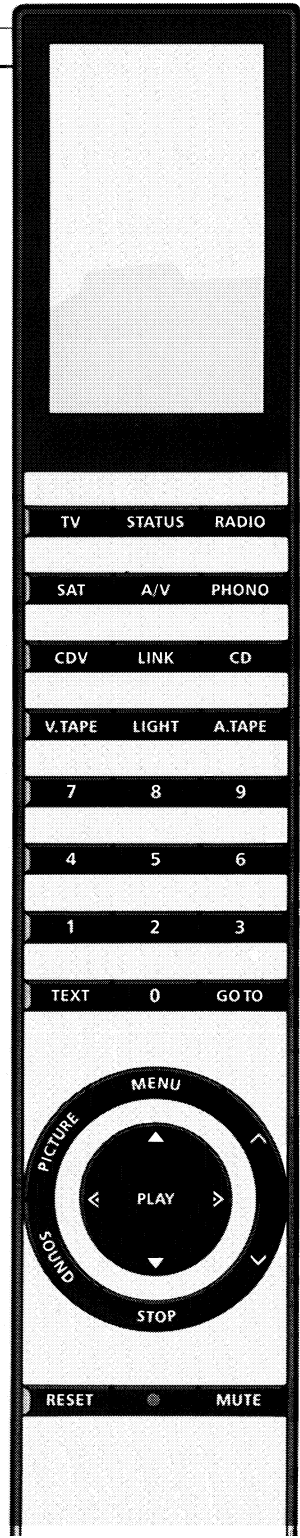
Lowers the volume level *(outer circle buttons)* — v

Mutes the speakers immediately — MUTE

Press again to recall the sound

Resets the volume level to its preset level — RESET

Switches off — ●



Using the Beolink 1000

Although designed primarily for close-up operation and for remote operation of a large number of functions with the Beolink 5000 terminal, the Beosystem 4500 can also be operated with the Beolink 1000 terminal.

The Beolink 1000 terminal can operate all the primary, daily functions in your Beosystem 4500, such as switching on to a source, selecting other radio programs or tracks on a CD, adjusting volume and switching off.

Note: Only the Beolink 5000 terminal can operate the timer programming functions in the Beosystem 4500.

See the Beolink 1000 user's guide for full details of how to use the Beolink 1000 terminal

Below are the primary, daily operations

Turns on the radio program you were last listening to — RADIO

Selects other radio programs — 0 *through* 9

Steps through programs — ▲ *or* ▼

Starts playing the record on the turntable — PHONO

Steps forward through the music — ▲

Steps backward through the music — ▼

Starts playing the tape in the audio tape recorder — A.TAPE

Selects other tracks — 0 *through* 9

Plays the next track — ▲

Plays the current track again – press twice to play the previous track — ▼

Fast forward — »

Rewinding — «

Starts playing the CD in the compact disc player — CD

Selects other tracks — 0 *through* 9

Plays the next track — ▲

Plays the current track again – press twice to play the previous track — ▼

Forward search — »

Backward search — «

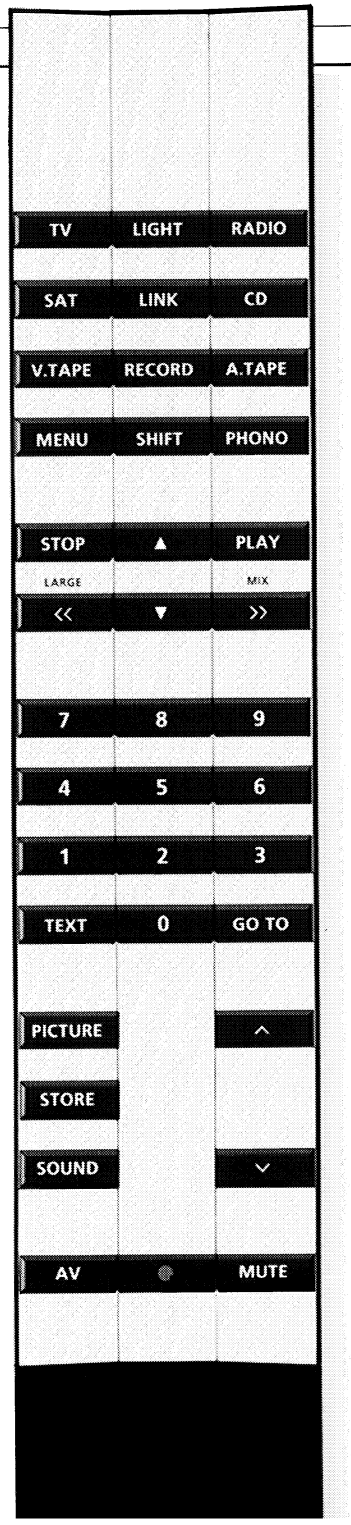
Raises the volume — ^

Lowers the volume — v

Mutes the speakers immediately — MUTE

Press again to recall the sound

Switches off — ●



Surfaces

Use a dry cloth to wipe dust off each unit of the Beosystem 4500. Fingerprints and grease stains can be removed with a firmly wrung soft cloth dipped in a solution of lukewarm water and a mild detergent.

Lime stains on the aluminium surfaces, caused by dried water drops, can be removed by a lime dissolving solution, for example 30 % acetic acid.

Do not use alcohol or other solvents to clean any part of the Beosystem 4500.

Tape path

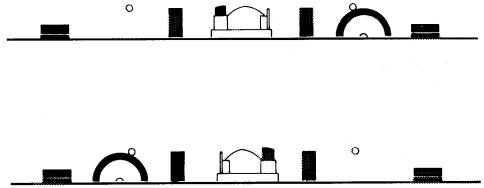
The tape path – that is, the tape heads, pinch rollers and other parts which the tape touches during play or recording – should be cleaned every now and then to avoid dust and fluff build-up.

Use a tape head maintenance kit or simply a cotton wool stick dipped in a rinsing fluid designed for this purpose. The cleaning process must be carried out while there is no cassette in the compartment.

Press PLAY. The tape head and the right-hand pinch roller are now exposed, enabling you to clean them as indicated.

Press PLAY to expose and clean the left-hand pinch roller.

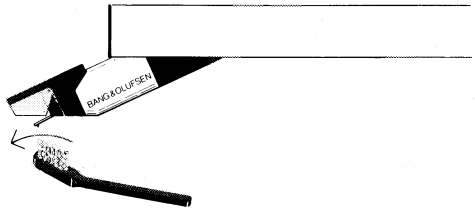
Press STOP or switch to another source when you have finished the cleaning process.



Stylus

Fluff and dust can build up on the tip of the stylus and cause distortion during playback. Therefore, clean the stylus every now and then using the tiny brush provided.

Carefully brush the stylus from the back of the cartridge towards the front. Any stylus cleaning fluid should be used in moderate amounts.



Date purchased

Contact person

Dealer

Telephone

Address

Record your serial numbers here:

Beomaster 4500

Beogram CD 4500

Beocord 4500

Beogram 4500

Beolink 5000

Dear Customer,

Your needs as the user of our products are always given careful consideration during the design and development process, and we strive to make our products easy and comfortable to operate.

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